

Biology

Chapter 34: Reproduction and Development

Multiple Choice

Identify the choice that best completes the statement or answers the question.

- ____ 20. Puberty usually begins between the ages of
- 5 and 8.
 - 9 and 15.
 - 16 and 19.
 - 20 and 25.
- ____ 23. Put the following events in the order in which they occur at the beginning of puberty.
- FSH and LH are released.
 - Estrogens or testosterone cause the development of features such as breast development in females and the deepening of the voice in males.
 - The hypothalamus sends a signal to the pituitary gland.
 - The gonads begin to mature.
- II, III, I, IV
 - I, III, II, IV
 - IV, II, I, III
 - III, I, IV, II
- ____ 25. In Figure 34–2, which part of the sperm cell contains mitochondria necessary to power its trip through the reproductive system?
- A
 - B
 - C
 - all of the above
- ____ 26. Which part of the sperm cell shown in Figure 34–2 contains enzymes vital to fertilization?
- A
 - B
 - C
 - all of the above
- ____ 27. About how many sperm are in one milliliter of semen?
- 1,000-5,000
 - 250,000-500,000
 - 1-2 million
 - 50-130 million

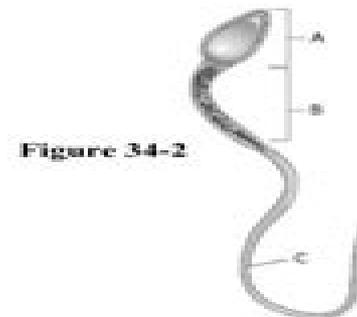


Figure 34-2

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Joseph S. Levine, Kenneth R. Miller



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provided for each question including not only an explanation of why the correct answer is correct but also why the incorrect answers are incorrect

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web among the lanthanides in addition to 3 states 2 states are shown by nd sm eu tm and yb only whereas 4 state is exhibited by ce pr nd tb and dy elements rest five elements show only 3 states oxidation states of lanthanide elements it has been shown that the lanthanide elements are highly electropositive and form essentially ionic

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web the lanthanide 'lænθənaɪd or lanthanoid 'lænθənoɪd series of chemical elements a comprises the 14 metallic chemical elements with atomic numbers 57 70 from lanthanum through ytterbium 2 3 4 lutetium is also sometimes considered a lanthanide despite being a d block element and a transition metal

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web five of the elements la ce pr nd eu are very reactive and when exposed to air react with oxygen to form an oxide coating that tarnishes the surface for this reason these metals are stored under mineral oil the remainder of the lanthanides are not as reactive and some gd lu retain their silvery metallic appearance for a long time

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web may 22 2015 li et al have shown that the biological diversity at lanthanide mining sites decreased when lanthanides were found in high concentrations 4 prompting researchers to isolate microorganisms that can effectively concentrate lanthanides in their cell walls for use in future bioremediation endeavors 5

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web to separate the lanthanides from other elements occurring with them they are chemically combined with specific substances to form lanthanide compounds with low solubility oxalates and fluorides for example a process known as ion exchange is then used to separate the lanthanides from each other in this process a solution of the

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web the fifteen elements shown in table pageindex 1 from lanthanum La 4f 0 to lutetium Lu 4f 14 are lanthanoids Ln may be used as a general symbol for the lanthanoid elements although lanthanoids scandium Sc and yttrium Y are sometimes called rare earth elements they are relatively abundant in the earth s crust

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